

(GB) Operating instructions

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Shaded grey area is designed for end-user instruction

## Example: Factory program P1 - weekly overview Monday ► 17.0°C — 5:00 --52-00 -21 0°C-0 · 2 · 4 · 6 · 8 · 10 · 12 · 14 · 16 · 18 · 20 · 22 · Tuesday -21.0°C-.<u>22.00</u> ► 17.0°C -S-OO-0 · 2 · 4 · 6 · 8 · 10 · 12 · 14 · 16 · 18 · 20 · 22 · Wednesday ► 17.0°C — 5:00 --52-00 -21 0°C-0 · 2 · 4 · 6 · 8 · 10 · 12 · 14 · 16 · 18 · 20 · 22 · Thursday ► 17.0°C — 5:00 --21 0°C-<u> 22.00</u> 0 · 2 · 4 · 6 · 8 · 10 · 12 · 14 · 16 · 18 · 20 · 22 · Friday ► 17.0°C — Ћ:ՈՈ --21.0°C 23:0<u>0</u> 0 · 2 · 4 · 6 · 8 · 10 · 12 · 14 · 16 · 18 · 20 · 22 · Saturday ► 17.0°C — -21 0°C-23:0A 7:00 0 · 2 · 4 · 6 · 8 · 10 · 12 · 14 · 16 · 18 · 20 · 22 · Sunday ► 17.0°C -7:00 23:08 21.0°C 0 · 2 · 4 · 6 · 8 · 10 · 12 · 14 · 16 · 18 · 20 · 22 ·

With its various programs and setting facilities, the famoso 2000 digital chronostat always ensures a comfortable room temperature.

The chronostat contains the following:

# 4 factory programmes

The factory programmes are oriented to the calendar week and have been adapted to suit different ways of life.

## 4 user-defined programmes

The 4 factory programmes can be edited to suit your specific requirements.

AUTOmatic mode

The chronostat operates in accordance with one of the four factory programmes or the user-defined programme in this mode.

## 3 continuous temperature modes

A single temperature is assigned to each of the continuous temperature modes. The programmed temperature is maintained until another mode is selected.

#### HOI IDAY mode

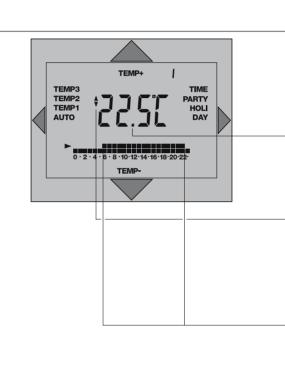
This mode remains active for the specified number of days and then returns to the previously selected programme.

#### **PARTY** mode

Switches to temperature level 3 (factory setting: 21 °C) for a three-hour period.

The battery-powered chronostat can be removed from its stand and programmed easily on a table or from the comfort of an armchair. Simply replace the chronostat on its stand when you have finished programming (refer to Page 5).

When entering the time for a change in temperature, please remember that the heating system requires a certain amount of time to adjust the temperature to the set value.



Your chronostat has been installed and the installation technician has programmed the programme of your choice to suit your specific requirements. Proceed as follows if you wish to change the temperature temporarily:

The display shows the current room temperature

TEMP+ TEMP- Press the button on the display once and read the programmed temperature

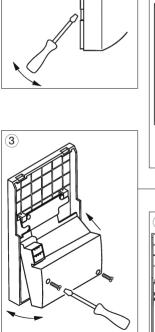
Display for the set room temperature

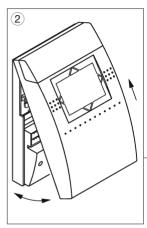
TEMP+

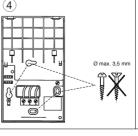
Press the button on the display and enter the desired temperature

Times for the change in temperature

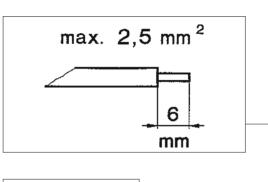
The temperature specified by the programme is reactivated with the next temperature change.

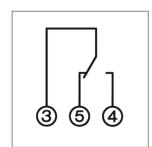


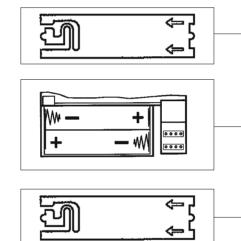


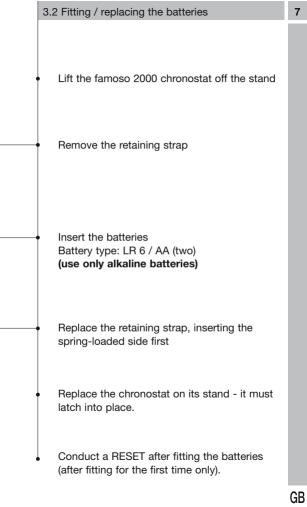


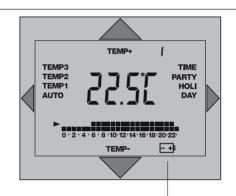
GR

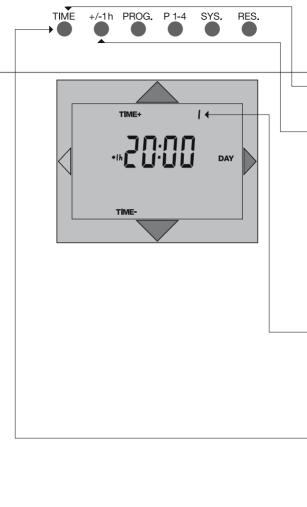












Press the **TIME** button once
The time appears on the display

When setting for the first time during summertime, press the **+/-1h** button once

+1h appears on the display

TIME+ TIME-

DAY

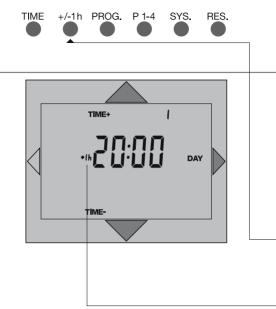
Press the button and set the current time

Press the button and set the day of the week

The days of the week are displayed in the following format: 1=Mo. 2=Tu. 3=We. 4=Th. 5=Fr. 6=Sa. 7=Su

Confirm the entered data:

Press the **TIME** button once The unit returns to its AUTOmatic programme sequence.

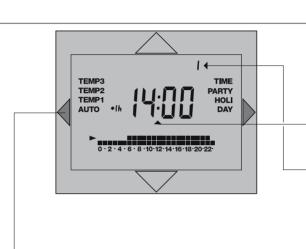


4.1 Setting summertime / wintertime

Press the **+/-1h** button and set summertime / wintertime

Displayed indicator (+1h displayed for summertime; no indicator appears on the display during wintertime (normal time)

Please make sure that +1h is displayed during summertime.



TIME

Press the **TIME** button 1x

TIME flashes on the display

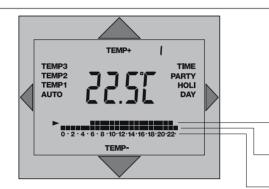
The current time appears on the display

The current day of the week appears on the display

The display returns to its original state automatically if no buttons are pressed for approx. 8 seconds

AUTO Press the AUTO button

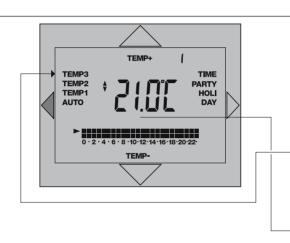
The units returns to its automatic programme sequence



Factory setting		Setting range	
TEMP 3	21° C	18° C 35° C	
TEMP 2	17° C	14° C 20° C	
TEMP 1	5° C	5° C 16° C	

#### Note:

The temperature measuring range is between 0°C ... 40°C. If the temperature is outside this range, --:-°C will appear on the display instead of a temperature value.



AUTO Press the **AUTO** button and select a temperature level

TEMP 3 21° C

TEMP 1 5° C (Factory settings)

The display starts flashing

The programmed temperature appears on the display

TEMP+ TEMP-

Press the button and alter the temperature

AUTO Press the AUTO button -

**AUTO** = automatic programme sequence

Note:

Program the temperatures so that TEMP 3 is always higher than TEMP 2 and TEMP 2 is always higher than TEMP 1.

## Factory programmes P1 - P4

The factory programmes are oriented to the calendar week and have been adapted to suit different ways of life. They can be altered according to specific requirements.

### 4 user-defined programmes

The 4 factory programmes can be edited to suit your specific requirements.

## 6 operating modes:

#### **AUTOmatic mode**

The chronostat operates in accordance with one of the four factory programmes or the user-defined programme in this mode.

## 3 continuous temperature modes

A single temperature is assigned to each of the TEMP 3, TEMP 2 and TEMP 1 modes. The programmed temperature is maintained until another mode is selected or the unit is switched off.

#### PARTY mode

Switches to temperature level 3 (factory setting: 21°C) for a three-hour period.

#### **HOLIDAY** mode

This mode remains active for the specified number of days and then returns to the previously selected programme.

+	Factory programme	P1	Page 15
•	Factory programme	P2	Page 16
•	Factory programme	P3	Page 17
+	Factory programme	P4	Page 18
•	User-defined programme		Page 20

AUTO mode Page 24

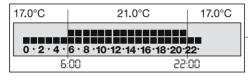
TEMP 3 mode Page 25

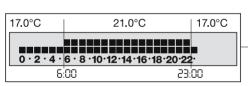
TEMP 2 mode Page 25

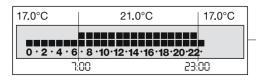
TEMP 1 mode Page 25

PARTY mode Page 26

HOLIDAY mode Page 27







Factory program P1 is a **daytime and evening programme**, i.e. the programme has been designed in such a way that a constant, comfortable temperature prevails during the day and in the evening.

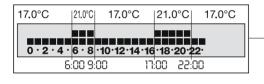
Changing the time and temperature:
Example with factory settings for the temperature levels
TEMP 3 = 21° C
TEMP 2 = 17° C

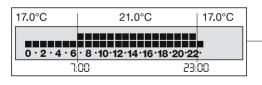
Monday to Thursday from 6:00 - 22:00 h TEMP 3 from 22:00 - 6:00 h\* TEMP 2 \*(the following morning)

Friday from 6:00 - 23:00 h TEMP 3 from 23:00 - 6:00 h\* TEMP 2

\*(the following morning)

Saturday and Sunday from 7:00 - 23:00 h TEMP 3 from 23:00 - 7:00 h\* TEMP 2 \*(the following morning)





Factory programme P2 is a **full-time working day programme**, i.e. the programme has been designed in such a way that a constant, comfortable temperature prevails at breakfast-time, in the evening and all day at the weekend.

Changing the time and temperature:

Example with factory settings for the temperature levels

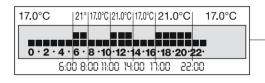
TEMP 3 = 21° C

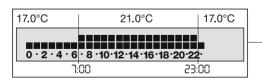
Monday to Friday

from 6:00 - 9:00 h TEMP 3 from 9:00 - 17:00 h TEMP 2 from 17:00 - 22:00 h TEMP 3 from 22:00 - 6:00 h\* TEMP 2

\*(the following morning, 7:00 h on Saturday)

Saturday and Sunday from 7:00 - 23:00 h TEMP 3 from 23:00 - 7:00 h\* TEMP 2 \*(the following morning, 6:00 h on Monday)





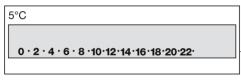
Factory programme P3 is a **working day programme**, i.e. the programme has been designed in such a way that a constant, comfortable temperature prevails at breakfast-time, at lunchtime, in the evening and all day at the weekend.

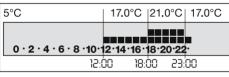
Changing the time and temperature: Example with factory settings for the temperature levels TEMP 3 = 21° C TEMP 2 = 17° C

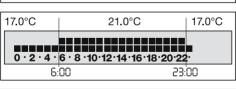
Monday to Friday from 6:00 - 8:00 h TEMP 3 from 8:00 - 11:00 h TEMP 2 from 11:00 - 14:00 h TEMP 3 from 14:00 - 17:00 h TEMP 2 from 17:00 - 22:00 h TEMP 3 from 22:00 - 6:00 h\* TEMP 2 \*(the following morning, 7:00 h on Saturday)

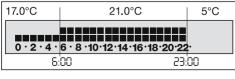
from 7:00 - 23:00 h TEMP 3 from 23:00 - 7:00 h\* TEMP 2 \*(the following morning, 6:00 h on Monday)

Saturday and Sunday









Changing the time and temperature:

Example with factory settings for the temperature levels TEMP  $3 = 21^{\circ}C$ TFMP  $2 = 17^{\circ}C$ 

Monday to Thursday TEMP 1 24 hours a day

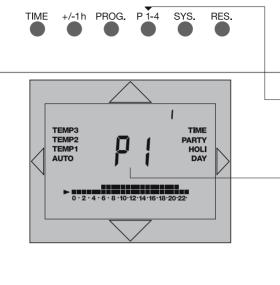
TFMP  $1 = 5^{\circ}C$ 

Friday from 12:00 - 18:00 h TEMP 2 from 18:00 - 23:00 h TFMP 3 from 23:00 - 6:00 h\* TFMP 2 \*(the following morning)

Saturday from 6:00 - 23:00 h TFMP 3 from 23:00 - 6:00 h\* TEMP 2 \*(Sunday)

Sunday from 6:00 - 23:00 h TFMP 3 from 23:00 - 12:00 h\* TEMP 1 \*(Friday)

18

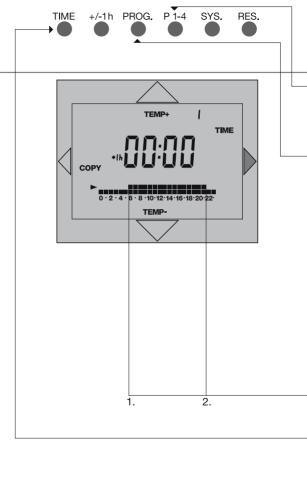


19

Press the **P 1 - 4** button
Select the factory programme of your choice

The selected factory programme appears on the display

The display returns to its original state automatically if no buttons are pressed for approx. 8 seconds



The user-defined programme is a modified factory programme. Let us assume that you wish to read or modify factory programme P1, for example.

Press the **P 1 - 4** button and select factory programme P1

Press the **PROG.** button 1x

1 = Monday appears on the display

Keep the **TIME** button pressed until the **first time** 5:00 appears

TIME

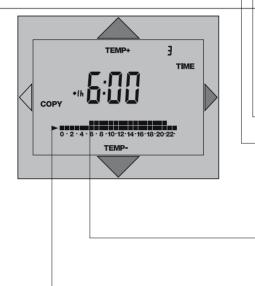
Keep the **TIME** button pressed until the **second time 22:00** appears, etc.

Press the **PROG.** button 1x = Tu appears on the display, etc.

Times for temperature changes

To terminate selection / reading: press the **TIME** button -





### Note:

The shortest interval between two changes in temperature must be 1 hour. Up to 8 temperature changes are permitted in any one day. --:-- appears on the display if you attempt to enter more than 8 changes.

Thursday Friday

Monday to

Saturday and Sunday

Example:

TIME

TFMP-

Adapt the programme (P1) to suit your requirements in the following manner: you wish to lower the temperature to 17°C for the whole day on Wednesday.

Press the **P1 - 4** button until P1 appears on the display

Press the **PROG.** button 3x  $\exists$  = We appears on the display

 Keep the TIME button pressed until the display stops automatically at 5:00 h (temperature change)

Press the **TEMP**. button 1x

The arrow moves to the bottom row of little boxes = TEMP 2 =  $17^{\circ}$ C

The time of the temperature change is displayed

The top row of boxes disappears.

► 0 · 2 · 4 · 6 · 8 · 10 · 12 · 14 · 16 · 18 · 20 · 22 · Wednesday

The heating system adjusts the temperature to 17°C

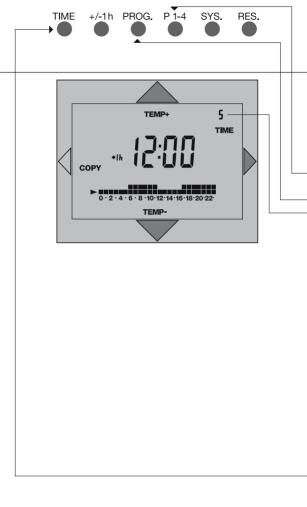
until the next temperature change the following morning.

Thursday

0 · 2 · 4 · 6 · 8 · 10 · 12 · 14 · 16 · 18 · 20 · 22

To terminate your inputs:

To terminate your inputs: press the TIME button



# 6.6.1 Entering a user-defined programme

0 · 2 · 4 · 6 · 8 · 10 · 12 · 14 · 16 · 18 · 20 · 22 Thursday

Friday

0 · 2 · 4 · 6 · 8 · 10 · 12 · 14 · 16 · 18 · 20 · 22 ·

0 · 2 · 4 · 6 · 8 · 10 · 12 · 14 · 16 · 18 · 20 · 22 · Saturday and Sunday

# Example:

TIME

TIME

TIME

TFMP-

Adapt the programme (P1) to suit your requirements in the following manner: you wish to lower the temperature to 17 °C between 12:00 h and 17:00 h on Friday

12:00 h and 17:00 h on Friday.

Press the **P1 - 4** button until P1 appears on the display

Press the **PROG.** button 5x 5 = We appears on the display

12:00 h appears on the display

Keep the **TIME** button pressed until the time

Press the **TEMP.** button 1x

The arrow moves to the bottom row of little boxes = TEMP 2 = 17 °C Part of the top row of boxes disappears.

Keep the **TIME** button pressed until 17:00 h appears on the display

Press the **TEMP.** button 1x

TEMP+ The arrow moves to the top row of little boxes = TEMP 3 = 21 °C

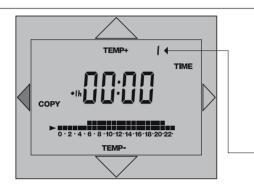
Keep the **TIME** button pressed until 23:00 h appears on the display

Press the **TEMP.** button 1x

The arrow moves to the bottom row of little boxes = TEMP 2 = 17 °C

To terminate your inputs: press the **TIME** button 1x

GR



# Example:

You have programmed day 1 If you wish to adopt the same daily programme for subsequent days, press the

## copy button

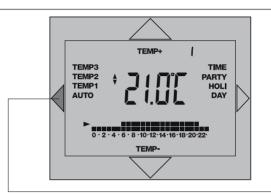
COPY day 1 to day 2 - COPY to day 3, etc.

The selected day appears on the display

#### Note:

Bear in mind that the last temperature programmed for the copied day continues to apply until a different temperature is programmed on one of the following days. Always check the entered programme day by day, as described in Page 20.

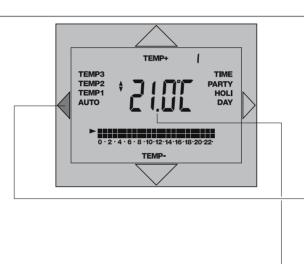
Press the **TIME** button
The unit returns to its automatic programme sequence.



The chronostat operates in accordance with one of the four factory programmes or the user-defined program in this mode.

аито Press the **AUTO** button

Display Selected mode **AUTO** flashes on the display



6.9 TEMP 2 mode

6.10 TEMP 1 mode

A single temperature is assigned to each of the continuous temperature modes. The programmed temperature is maintained until another mode is selected.

AUTO Press the **AUTO** button and select a temperature level TEMP3 21 °C TEMP2 17 °C TEMP1 5 °C (Factory settings)

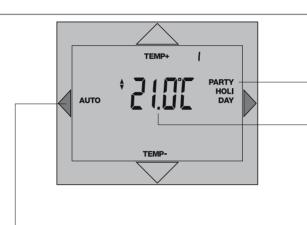
Display Selected mode
Example:
TEMP 3 flashes on the
display

Display Shows the set temperature Example: 21.0 °C

The current room temperature is displayed after approx. 8 seconds

If you wish to return to the automatic programme sequence:

AUTO press the AUTO button until AUTO starts flashing on the display



GR

PARTY

TEMP+ TFMP-

Press the PARTY button 2x

The programmed room temperature appears on the display

PARTY starts flashing on the display

Switches to temperature level 3 (factory setting: 21 °C) for a three-hour period.

Press the ... button and enter the desired temperature

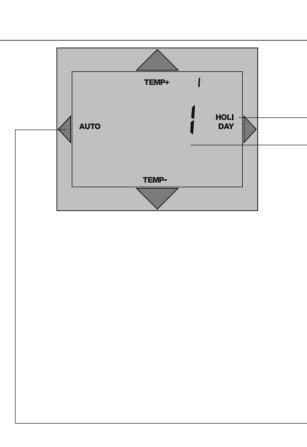
The current room temperature is displayed after approx. 8 seconds

The unit returns to the automatic programme sequence after 3 hours in PARTY mode

prematurely: AUTO press the AUTO button

If you wish to terminate PARTY mode

The unit returns to the automatic programme seauence



This mode remains active for the specified number of days and then returns to the previously selected programme.

HOLI DAY

Press the HOLIDAY button 3x

starts flashing on the display

The first day of the holiday period appears on the display

Example: HOLI DAY

Press the HOLIDAY button 1x

= 2 davs holidav

TEMP+

Press the ... button and select the temperature (not possible when OFF, refer to Page 28)

Holiday mode continues running for the specified number of days

To terminate HOLIDAY mode prematurely: AUTO press the AUTO button The unit returns to the automatic programme

sequence

HEAT	COOL		
TEMP 1		-	
OFF			
PROP			_
ON / OF	F		

The necessary settings must be specified on site when the system is put into operation for the first time.

You can use the system settings to adapt the chronostat to suit your specific requirements.

Refer to Page 29 for information concerning inputs (Parameter settings)

# Factory settings

Heating or cooling mode

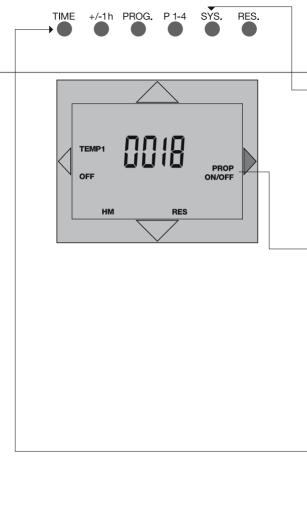
The set value for temperature 1 is active (factory setting 5 °C provides protection against freezing)

The system is switched off if TEMP 1 is active in AUTOmatic or continuous temperature mode. The same applies to HOLIDAY mode.

There is no protection against freezing.

Proportional control response

Simple control response (similar to that of a bimetal controller)





The active system settings start flashing. The display returns to its original state automatically if no buttons are pressed for approx. 8 seconds

PROP Press the PROP button and change the settings Example: switchover between proportional

and simple control response

Display PROP

Display ON/OFF

To terminate programming: press the **TIME** button 1x

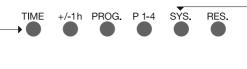
Recommended settings	Setting
Direct electric heating	1 or 2
Supplementary electric bathroom radiator	2 or 3
Single-room control system with electrically operated radiator valve (hot-water heating) Small to medium-sized rooms	3 or 4 s
Single-room control system with electrically operated radiator valve (hot-water heating) Medium to large rooms	4 or 5 s
Wall-mounted gas-fired boiler for single-storey heating systems	4 or 5
Free-standing gas-fired boiler or oil-fired boiler for larger living modules	4, 5 or 6

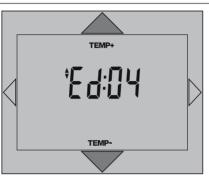
Setting	1	2	3	4	5	6
Cycle time 1 x ON - 1 x OFF in minutes	4	8,5	13	17	21	25,5

- The heating cycle setting is used for adaptation to the controlled system. This is affected by the following:
  - room size
  - type of heating (convector heaters, single-storey heating systems)
  - installation location
  - temperature controller/thermostat
- The setting range extends from 1 to 6.

  If the temperature in a room changes too dramatically, e.g. as a result of ventilating, then the cycle may be terminated prematurely or the system may be switched on again.
  - If the difference in temperature within a room is too great, the system does not switch ON and OFF sufficiently frequently, i.e. a lower CDF value must be selected.
  - If the system switches too often, a correspondingly higher CDF value must be selected.
- Factory setting: CDF = 4

  (4x 4 min. 15 s = 17 min.)





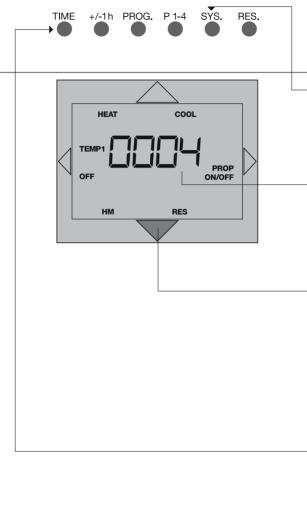


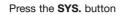
The display returns to its original state automatically if no buttons are pressed for approx. 8 seconds

TEMP+ Press the ... button and change the settings

Setting	1	2	3	4	5	6
Cycle time 1 x ON - 1 x OFF in minutes	4	8,5	13	17	21	25,5

To terminate programming: press the **TIME** button





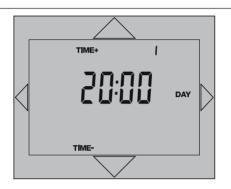
The display returns to its original state automatically if no buttons are pressed for approx. 8 seconds

The display shows the full hours during which the heating / cooling system was switched on.

Press the **RES** button to reset to 0000

To terminate programming: press the **TIME** button

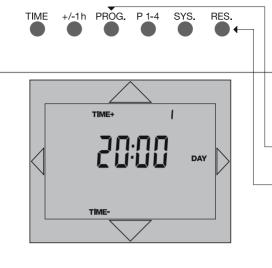




Press the **RES.** button

The chronostat reverts to a defined operating state and resets the current time to Monday 20:00 h.

Refer to Page 9 for information concerning setting the time / date



This function recalls factory programmes P1 - 4 and the factory settings for the temperature levels and resets the current time to Monday 20:00 h.

It also erases all user-defined settings.

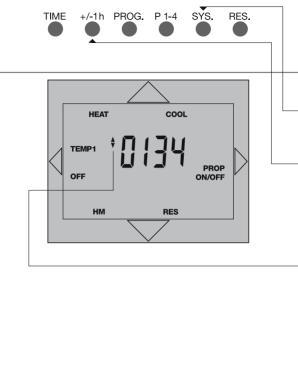
Press the **PROG.** button and keep it pressed

Press the RES. button

Release the RES, button

Release the **PROG.** press down key until 20:00 h appears in the display

- Refer to Page 9 for information concerning setting the time / date
- Refer to Page 15 for information concerning selecting factory programmes or
- Refer to Page 21 for information concerning entering a user-defined programme



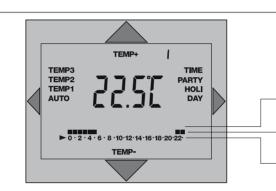
The electronic interlock prevents unintentional or unauthorized modifications to the programmes. The temperature can be changed slightly by +/- 3 degrees. It is also possible to interrogate the current time.



Press the +/-1h button 1x

Enable - repeat the procedure

The display indicates interlock on/off



If the unit is used in cooling mode, the temperature ranges are subject to the following limits:

# Cooling mode

Factory se	etting	Setting range
TEMP 3	32° C	27° C 35° C
TEMP 2	27° C	24° C 29° C
TEMP 1	23° C	15° C 26° C

# Note:

In cooling mode, the air-conditioning system is switched on the least number of times with TEMP 3 (highest temperature). The air conditioner cools to the greatest extent with TEMP 1. This factor has been taken into consideration in factory programs P1 - 4 by swapping TEMP 3 and TEMP 1 over compared with heating mode. OFF cannot be set in cooling mode (refer to Page 28)

Dimensions H x W x D (mm) 134 x 81 x 33

Weight approx. 200 g

Operating voltage battery, type 2x LR 6 / AA

Switching capacity:

- resistive load 5 A / 250 V~

- inductive load

 $\cos\,\phi$  0.6  $\,$  1 A / 250 V~

Switching output floating

Switching contact 1 changeover contact

Ambient temperature - 5°C to + 45 °C

Class of protection II

Accuracy typ 2.5 s / day at + 25 °C

Reserve power 2 min. to replace the batteries

Battery life 1 year

Shortest switching period:

daily programweekly programh

Programmable every 15 min.

Switching preselection yes

# Switching state display and operating modes:

Heating mode Flame symbol

Cooling mode Fan symbol

Automatic mode AUTO

Continuous mode TEMP 1. TEMP 2 or TEMP 3

Party mode PARTY

Holiday mode HOLIDAY

Type of installation Surface-mounted

Type of connection Screw-type terminals,

each 2.5mm<sup>2</sup>

Temperature

Heating control range + 5°C to + 35°C

Temperature

Cooling control range + 15°C to + 35°C

Protection against freezing TEMP 1 setting (factory setting: 5°C)

Differential temperature gap +/- 0.25 at 0.4 K \*

Feedback Electronic

Degree of protection IP 20

<sup>\*</sup> Greater fluctuations are possible as a result of the heating system and the heated room.

#### Problem:

- Operator control restricted at low voltage, i.e. whenever the battery symbol appears on the display. It is no longer possible to activate factory programs. Data entered during programming is not stored.
- 2. It is not possible to edit data
- It is not possible to set the value for the temperature level
- The heating system takes too long to reach the set temperature
- 5. The heating system switches too frequently
- The wrong key has been pressed or incorrect values have been entered during programming.

Remedy:

1. Replace the battery Page 7

- 2. The interlock is active Page 35
- 3. Select values within the setting range Page 12
- Check that the correct CDF value
   has been entered Page 31
- 5. Check that the correct CDF value has been entered Page 31
- Cancel the operation:
   Press the TIME button or the AUTO button
   on the display to start again

Use a dry cloth to clean the unit. Never use any caustic cleaning agents.

# 11. Service addresses

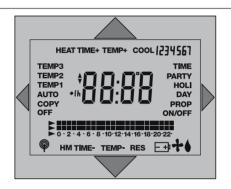
Grässlin GmbH & Co. KG FEINWERKTECHNIK Postfach 1232 D-78104 St. Georgen/Schw. Telephone ++49(0)7724/933-0 Telefax ++49(0)7724/933-240

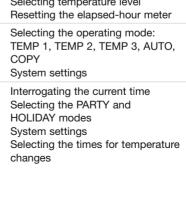
Key word	page	е

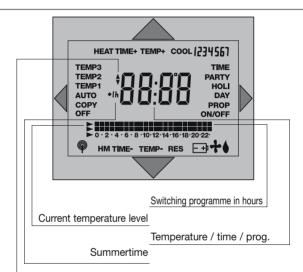
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Changing the required value

HEAT	Heating mode
COOL	Cooling mode
TIME +	Set the assignment of the TIME button
TEMP+	Set the assignment of the TEMP button
1234267	Indicates the current day of the week
TEMP 3	TEMP 3 mode selected
TEMP 2	TEMP 2 mode selected
TEMP 1	TEMP 1 mode selected
AUTO	Factory programme or user-defined programme running
COPY	Enter the assignment of the COPY button - user-defined programme, Page 23
OFF	System setting, Page 28
TIME	Current time
PARTY	PARTY mode, Page 26
HOLIDAY	HOLIDAY mode, Page 27
PROP	System setting, Page 28
ON/ OFF	System setting, Page 28
НМ	Elapsed-hours indicator, Page 32
TIME -	Set the assignment of the TIME button
TEMP-	Set the assignment of the TEMP button
RES	RESET, Page 33
- +1	Battery status / battery replacement, Page 7
+	Cooling mode on/off
•	Heating mode on/off

